ILYA FIGOTIN

3918 Burberry Drive South, Apt. #77
Lafayette, IN 47905
(513) 266 - 1865
ifigotin@cs.purdue.edu
US Citizen

OBJECTIVE

To obtain a full time position within a company or research laboratory in the field of Computer Science

PROFESSIONAL EXPERIENCE

Purdue University, West Lafayette, IN   January 2005 - Present
Research Assistant
- Member of Indiana Center for Database Systems (ICDS)
- Member of the Center for Education and Research in Information Assurance and Security (CERIAS)
- Involved in the NSF project on Privacy Preserving Data Integration and Sharing
- Conducted and designed set of experiments on embedding strings in vector space to prove feasibility of relevant methods
- Implemented cryptographic algorithms and protocols based on research papers for testing and comparing the efficiency of several private set intersection protocols
- Maintained Oracle and MySQL databases for other database related projects in ICDS

Cardinal Solutions Group, Cincinnati, OH   February 2004 – January 2005
Associate Consultant II
- Designed and developed a set of reporting tools to analyze data of large volumes; the reports helped to identify and fix data discrepancy issues
- Implemented JSP pages for data presentation and manipulation in comprehensive web application with WebSphere
- Supported Production Environment on AIX UNIX
- Implemented web services components with the help of Apache Axis

LexisNexis, Miamisburg, OH   March 2003 – February 2004
Software Engineer
- Developed an advanced tool in Java for comparing and merging XML documents. The tool was used in indexing process.
- Designed and developed utility applications that helped the developers in testing various tasks related to indexing
- Redesigned and migrated indexing modules written in C++/C and PL/1 into Java

LexisNexis, Miamisburg, OH   April 2001 – March 2003
Co-op/Software Engineer
- Developed web pages for internal project
- Developed parts of multilingual reporting tool in Java
- Developed UI components for applications

EDUCATION

Purdue University, West Lafayette, IN   Expected Graduation: Dec. 2006
M.S. in Computer Science   Current GPA: 4.0/4.0

Wright State University, Dayton, OH   March 2003
B.S. in Computer Science   GPA: 4.0/4.0
  - Graduated Summa Cum Laude

Kharkiv National University, Khrakiv, Ukraine   September 1997 – June 2000
Major: Applied Mathematics

COMPUTER SKILLS
Languages and Tools
Java, RMI, JDBC, JSP, JAX, JUnit, ANT, Xerces, Log4J,
C++, C, C#,
SQL, XML, HTML,
IBM WSAD, Eclipse IDE, ClearCase, Rational Rose,
MS Visual Studio, IBM VisualAge for Java, MS Office

Operating systems
Windows, Unix, Solaris, Linux

CLASS PROJECTS
  - Implemented operating system code for Pentium architecture (schedulers, semaphores, virtual memory with various page replacement algorithms)
  - Conducted a research project investigating known Private Set Intersection Algorithms
  - Modified, and investigated parts of gcc compiler implementation (worked with parse tree to implement prity-printing of the source code; and implemented liveness analysis)
  - Designed and implemented a database for a small company that dealt with patients in Cincinnati area
  - Developed a "forest fire" simulation program in C++, that demonstrated the concurrency of Unix processes
  - Developed a simple version of Unix Shell and file system. The program allowed users to execute shell commands for creating file system, mounting a file system, and working with that system (create, delete, and move files and directories)
  - Developed Graphics Editor in Motif toolkit. The drawing library was written from scratch. Special algorithms were used for drawing and filling the figures

RELEVANT COURSE WORK
Simulation and Modeling, Cryptography, Introduction to Information Security, Databases, Programming Languages, Compilers, Operating Systems, Algorithms and Data Structures, Graphics, Introduction to Robotics

LANGUAGES
Fluent in Russian, English and Ukrainian

ACTIVITIES AND HONORS
Member of Graduate Student Board   Purdue University
Outstanding Student in Computer Science Award   Wright State University
Phi Kappa Phi Honor Society   2002
Golden Key International Honor Society   2001
ACM International Collegiate Programming Contest   2001,2002
Dean's List, Highest Honors   Wright State University